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EXAMINER

NEGRON, DANIEL L

ART UNIT

PAPER NUMBER

2627

NOTIFICATION DATE

DELIVERY MODE

12/02/2009

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com



## **DETAILED ACTION**

### ***Response to Arguments***

1. As a preliminary matter, with regards to the rejection of claim 18 under 35 U.S.C. 112, second paragraph of the previous Office action mailed May 29, 2009, it is noted that two issues were pointed out by the examiner, one of which (terms “cooperable” and “individually” contradicting each other) was remedied by the current amendment to the claim, the other (terms “differentially” and individually” contradicting each other) was not addressed in the current amendment or the remarks submitted by Applicant. Therefore, the rejection of claim 18 under 35 U.S.C. 112, second paragraph has been maintained.

Applicant's arguments filed August 28, 2009 have been fully considered but they are not persuasive. Applicant argues on pages 6 and 7 that Lacombe fails to explicitly disclose or suggest all of the limitations recited in amended claim 18. Examiner however, respectfully disagrees since the method disclosed by Lacombe discloses varying overshoot amplitudes through current sources 532 and 552, which vary the durations of the current pulses (see Fig. 8 where the current pulse response changes with respect to changes in overshoot amplitude).

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 18-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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4. Claim 18 recites “differentially and individually varying respective amplitudes and durations”, which renders the claim indefinite since the terms “differentially” and “individually” contradict each other. Examiner cannot determine whether the amplitudes and durations are varied differentially or individually. Claims 19 and 20 are rejected by virtue of their dependency on claim 18.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 18 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Lacombe U.S. Patent No. 6,496,317.

Regarding claim 18, Lacombe discloses a method of providing a write current to an inductive head element in a disk drive system, comprising providing current pulses for individually defining a positive edge and a negative edge (e.g., signals WHX and WHY change the polarity of the write current pulses through the inductive head element) of the write current, differentially and individually varying respective overshoot amplitudes and durations (column 7, lines 61-65) of the positive edge current pulse and negative edge current pulse for counteracting induced imbalances in the write current (column 3, lines 21-25, column 7, lines 10-17 and 27-37). It is noted that by varying the amplitude of the overshoot current also varies the duration of the current (see Figs. 7 and 8).

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Regarding claim 20, Lacombe discloses a method further comprising providing a defined amplitude for each of the positive edge current pulse and the negative edge current pulse (column 7, lines 61-65 where the amplitude is defined by current sources 532 and 552).

***Allowable Subject Matter***

7. Claims 1-17 are allowed.

Reasons for allowance are as discussed in the previous Office action mailed May 29, 2009.

***Conclusion***

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is (571)272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniell L. Negrón/  
Examiner, Art Unit 2627  
November 23, 2009